

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>7</sup> : A61K 9/16, 38/12, A61P 31/10	A1	(11) International Publication Number: <b>WO 00/51567</b> (43) International Publication Date: 8 September 2000 (08.09.00)
---	----	---

(21) International Application Number: PCT/US00/05547

(22) International Filing Date: 2 March 2000 (02.03.00)

(30) Priority Data:  
60/122,693 3 March 1999 (03.03.99) US(71) Applicant (for all designated States except US): ELI LILLY  
AND COMPANY [US/US]; Lilly Corporate Center, Indi-  
anapolis, IN 46285 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHWIER, John, Richard  
[US/US]; 5137 Green Hills Drive, Brownsburg, IN 46112  
(US). TAYLOR, Jerry [US/US]; 9933 Trevia Drive, Indi-  
anapolis, IN 46236 (US).(74) Agents: LEHNHARDT, Susan, K. et al.; Morrison & Foerster  
LLP, 1290 Avenue of the Americas, New York, NY  
10104-0012 (US).(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR,  
BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE,  
GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ,  
LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,  
MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,  
TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO  
patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,  
TD, TG).

Published

*With international search report.**Before the expiration of the time limit for amending the  
claims and to be republished in the event of the receipt of  
amendments.*

(54) Title: PROCESSES FOR MAKING PHARMACEUTICAL ORAL ECB FORMULATIONS AND COMPOSITIONS

(57) Abstract

A fluid bed spray process is described where one or more carbohydrates are incorporated into an echinocandin formulation to provide a significant improvement in thermal stability. The carbohydrate is solubilized with an echinocandin compound or echinocandin/carbohydrate complex in a solvent(s) to form a pharmaceutical solution which is sprayed onto the surface of a granular diluent or carrier. Alternatively, a granulating agent is added to the pharmaceutical solution which is then sprayed onto the surface of a non-granular diluent or carrier. The resulting granular oral formulations and medicaments derived therefrom are also described.